Batuhan Usluel

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EDUCATION

University of Illinois at Urbana-Champaign — Jan 2022 – May 2024
Bachelor of Science in Computer Science + Economics — *GPA: 3.93/4.00*
Relevant Coursework: Progrmg Lang & Compilers, Computer System Organization, System Programming, Machine Learning, Data Mining, Algs & Models of Comp, High Frequency Trading Technology, Linear Algebra

Purdue University — Aug 2020 – Dec 2021
Bachelor of Science in Computer Science — *GPA: 3.56/4.00*

EXPERIENCE

CME Group — Chicago, IL
Software Engineer Intern — May 2023 – Aug 2023
- Led the design of dynamic validators for trading infrastructure, enabling seamless configurations and revolutionizing software testing flexibility
- Optimized the application, slashing execution time by 85%, vastly accelerating workflow
- Enhanced early error detection, significantly saving developer hours previously spent on troubleshooting
- Transformed the testing tool, positioning it as a vital component in CME's routine software development and QA processes

Software Engineer Intern — May 2022 – Aug 2022
- Refined a critical Java application, streamlining real-time testing for CME's buyer-seller matching engines
- Implemented a comparative analysis feature, allowing for real-time contrast between established outputs and new prototype versions, enhancing quality checks
- Transitioned from periodic manual checks to an automated alerting mechanism
- Leveraged Kafka for robust monitoring, capturing engine activities and providing invaluable insights into performance and reliability metrics

PROJECTS

RetailGPT | *Javascript, Node.js, Express, React, Docker, AWS* — June 2023 – Present
- Developed a full-stack AI-powered chatbot using GPT-4 for enhanced Shopify customer support
- Utilized vector databases to index store pages and products, enabling on-demand retrieval and presentation of relevant information
- Built a responsive frontend using React and JavaScript, ensuring an intuitive user experience
- Engineered a scalable backend with Node.js and Express, deployed and managed on AWS

App Performance Tracker | *Javascript, Python* — Sep 2022 – Dec 2022
- Developed a responsive and intuitive user interface using React and JavaScript, empowering app developers to track and compare their app's performance against competitors across Google Play and Apple App Stores
- Implemented real-time review tracking feature for the Play Store, enabling developers to monitor user sentiment and feedback over time, and correlating this with specific updates to their app
- Designed and implemented a Django backend, serving as a RESTful API that scrapes, processes, and delivers app performance data to the frontend

iDetect | *Python* — Feb 2022
- Developed "iDetect," a real-time emotion analysis application, at the iMAKE hackathon, enabling speakers in virtual meetings to gauge audience engagement by analyzing video streams
- Utilized Python's DeepFace library for facial recognition and emotion classification
- Designed and implemented data visualization components to display real-time emotion statistics via tables and graphs

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript
Frameworks: React, Node.js, Express.js, Django, JUnit, Spring
Developer Tools: Git, Docker, Google Cloud, AWS, VS Code, Visual Studio, IntelliJ, Eclipse, Postman, Bamboo, Kafka, Jenkins, Confluence, JIRA
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Langchain